

SEQUENCE LISTING

<110> Barbas, Carlos F., III
Kadan, Michael
Beerli, Roger

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<151> 1999-10-25

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<212> DNA

<213> Artificial Sequence

<220>

<220>

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 <212> DNA
 <213> Artificial Sequence

<220>

<220>
 <223> Description of Artificial Sequence: Construct
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 <213> Artificial Sequence

<220>

<220>
 <223> Description of Artificial Sequence: Construct
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 <211> 6623
 <212> DNA
 <213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: Construct
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<400> 6

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Construct
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<212> DNA

<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: Construct
C7LBDCL

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<220>

<220>
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 C7LBDCS

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<213> Artificial Sequence

<220>

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E2CLBDAS

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<220>

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 <223> Description of Artificial Sequence: Construct
 E2CLBDBS

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<210> 17
 <211> 1551
 <212> DNA
 <213> Artificial Sequence

<220>

<220>
 <223> Description of Artificial Sequence: Construct
 VP16C7ER

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<400> 17
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ccctacggcg ctctggatat ggccgacttc gagtttgagc agatgtttac cgatgccctt 240
ggaattgacg agtacggttt aattaacaag cttggggccc aggcggccct cgagccctat 300
gcttgccctg tcgagtcctg cgatcgccgc ttttctaagt cggctgatct gaagcgccat 360
atccgcatcc acacaggcca gaagcccttc cagtgtcgaa tatgcatgcg taacttcagt 420
cgtagtgacc accttaccac ccacatccgc acccacacag gcgagaagcc ttttgcctgt 480
gacatttgat ggaggaagtt tgccaggagt gatgaacgca agaggcatac caaaatccat 540
ttaagacaga aggactctag aactagtggc caggccggcc agggggatcc acgaaatgaa 600
atgggtgctt caggagacat gagggctgcc aacctttggc caagccctct tgtgattaag 660
cacactaaga agaatagcc tgccttgctc ttgacagctg accagatggg cagtgccttg 720
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gcctcaatga tgggcttatt gaccaaccta gcagataggg agctgggtca tatgatcaac 840
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<210> 18
 <211> 1404
 <212> DNA
 <213> Artificial Sequence

<220>

<220>
 <223> Description of Artificial Sequence: Construct
 VP16C7PR

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<400> 18
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ctccacttag acggcgagga cgtggcgatg gcgcatgccg acgcgctaga cgatttcgat 120
ctggacatgt tgggggacgg ggattccccg ggtccgggat ttacccccca cgactccgcc 180

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<210> 19

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 19

Thr Gly Glu Lys Pro

1

5

<210> 20

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<220>

<221> n= {N}_x ; X= any number

<222> 10

<400> 20

ggcccacgcn gcgtgggcy

19

<210> 21

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<220>

<221> n= {N}_x; X= any number

<222> 19

<400> 21
cgccgcccgc gccgcccgc cgtgggcg

28

<210> 22
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant
molecule

<400> 22
Met Lys Leu Leu Glu Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg
1 5 10 15
Arg Phe Ser Lys Ser Ala Asp Leu Lys Arg His Ile Arg His Thr Gly
20 25 30
Glu Lys Pro
35

<210> 23
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant
molecule

<400> 23
Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Lys Ser Ala
1 5 10 15
Asp Leu Lys His Ile Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 24
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant
molecule

<400> 24
cctcgcccgc gcgggttttc ccgcgcccc gagg

34

<210> 25
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant
molecule

<220>

<221> nnn= a mixture of all 64 existing triplets and its complement

<222> 26-28 and 7-9 respectively

<400> 25
 ggacgcnnnc gcgggttttc ccgcgnnngc gtcc 34

<210> 26
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

<400> 26
 gcgagcaagg tcgcggcagt cactaaaaga ttgcccgcac tctgggcatt tatacggttt 60
 ttcacc 66

<210> 27
 <211> 74
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

<400> 27
 gtgactgccg cgaccttgct cgccatcaac gcactcatac tggcgagaag ccatacaaat 60
 gtccagaatg tggc 74

<210> 28
 <211> 81
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

<400> 28
 ggtaagtcct tctctcagag ctctcacctg gtgcgccacc agcgtaccca cacgggtgaa 60
 aaaccgtata aatgcccaga g 81

<210> 29
 <211> 58
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

<400> 29
 acgcaccagc ttgtcagagc ggctgaaaga cttgccacat tctggacatt tgtatggc 58

<210> 30
 <211> 87
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

<400> 30
 gaggaggagg aggtggccca ggcggccctc gagcccgggg agaagcccta tgcttgtccg 60
 gaatgtggta agtccttctc tcagagc 87

002090"52993560

<210> 31
<211> 81
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 31
gaggaggagg agctggccgg cctggccact agttttttta ccggtgtgag tacgttggtg 60
acgcaccagc ttgtcagagc g 81

<210> 32
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 32
gaggaggagg ctagcgggat gtggtcttgc cctcaacagg tagg 44

<210> 33
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 33
gaggaggaga agcttctcgt ccgcctcccg cggcgctccg c 41

<210> 34
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 34
gaggaggagg ctagccgatg tgactgtctc ctcccaaatt tgtagacc 48

<210> 35
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 35
gaggaggaga agcttggtgc tcaactgcggc tccggcccca tg 42

<210> 36
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 36

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu
1 5 10

<210> 37

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 37

gaggagggct gcttgaggaa gta

23

<210> 38

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 38

gccggagcca tggggccgga gcc

23

<210> 39

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 39

cctactgccg gcactagttc tgctggagac atgagagctg ccaacctt

48

<210> 40

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 40

cctaaacgta cggctagtgg gcgcatgtag gcggtgggcg tc

42

<210> 41

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 41

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39

002090" 52938560

<210> 42
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 42
ccacttaaat gtgaaagtcg tacgccggcc 30

<210> 43
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 43
tatggggggc tcagcatcca acaaggcact 30

<210> 44
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 44
cctactacta gtgaccgaag aggagggaga atgttgaaac acaagcgc 48

<210> 45
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 45
cctactacta gtagtattca aggacataac gactatatgt gt 42

<210> 46
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 46
tatcatgtgc ggccgcttac ttagttaccc cggcagcat 39

<210> 47
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 47

Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp
1 5 10 15

Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp Ala Leu Asp
20 25 30

Asp Phe Asp Leu Asp Met Leu
35

<210> 48

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 48

gatccaaagt cgcgtgggcg cagcgccac gcatcaaag a 41

<210> 49

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 49

gatccaaagt ccaggcgagc gcgtgggcg cagatcaaag a 41

<210> 50

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 50

gatccaaagt cgcgtgggcg caggcgcgag cgtgggcgga tcaaaga 47

<210> 51

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 51

gatccaaagt cgcgtgggcg cagcgccac gcatcaaag a 41

<210> 52

<211> 41

<212> DNA

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 52
 gatccaaagt cgcgtgggcg cactccggcc ccgatcaaag a 41

 <210> 53
 <211> 41
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 53
 gatccaaagt cggggccgga gactccggcc ccgatcaaag a 41

 <210> 54
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 54
 gccggagcca tggggccgga gcc 23

 <210> 55
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 55
 cgctccctct caggcgagg g 21

 <210> 56
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 56
 ggcgccact gtggggcggg c 21

 <210> 57
 <211> 41
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Recombinant molecule

 <400> 57
 gaggaggagg gccggccggg aagccgtgca ggaggagcgg c 41

[illegible]

<400> 58
gaggaggagg gcgcgccag tcatttggtg cggcgccctcc agc 43

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 59
gaggaggagt taattaaagt catttggtgc ggcgcctcca gc 42

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 60
gaaggaggagg gccggccggg gtggcgccca agactttgtt aaqaagg 47

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 61
gaggaggagg gccaggcgg ccggtggcgg ccaagacttt gttaagaagg 50

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 62
gaaggaggagg gcgcgccccg catgaacgtc ccagatctcc tcgag 45

<220>
<223> Description of Artificial Sequence: Recombinant

molecule

<400> 63
gaggaggagg gccggccgga ggcctgaatg tgtcatacag gagccc 46

<210> 64
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 64
gaggaggagg gccagggcgg ccaggcctga atgtgtcata caggagccc 49

<210> 65
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 65
gaggaggagg gcgcgcccct ccgccacgtc ccagatctcc tcgag 45

<210> 66
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 66
gtacagatgc tccatgcgtt tgttactcat gtgcc 35

<210> 67
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 67
ggcacatgag taacaaacgc atggagcatc tgtac 35

<210> 68
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant molecule

<400> 68
ccatggagca ccagtgag ctactgtttg c 31

<210> 69
<211> 31

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Recombinant molecule

<400> 69

gcaaacagta gcttcactgg gtgctccatg g

31

<210> 70

<211> 624

<212> DNA

<213> Muridae

<220>

<221> CDS

<222> (1)...(624)

<223> cDNA encoding secretion signal and murine endostatin protein.

<400> 70

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Met	Glu	Thr	Asp	Thr	Leu	Leu	Leu	Trp	Val	Leu	Leu	Leu	Trp	Val	Pro	
1				5					10					15		

ggt	tcc	act	ggt	gac	gcg	gcc	cat	act	cat	cag	gac	ttt	cag	cca	gtg	96
Gly	Ser	Thr	Gly	Asp	Ala	Ala	His	Thr	His	Gln	Asp	Phe	Gln	Pro	Val	
			20					25					30			

ctc	cac	ctg	gtg	gca	ctg	aac	acc	ccc	ctg	tct	gga	ggc	atg	cgt	ggt	144
Leu	His	Leu	Val	Ala	Leu	Asn	Thr	Pro	Leu	Ser	Gly	Gly	Met	Arg	Gly	
			35				40					45				

atc	cgt	gga	gca	gat	ttc	cag	tgc	ttc	cag	caa	gcc	cga	gcc	gtg	ggg	192
Ile	Arg	Gly	Ala	Asp	Phe	Gln	Cys	Phe	Gln	Gln	Ala	Arg	Ala	Val	Gly	
	50					55					60					

ctg	tcg	ggc	acc	ttc	cgg	gct	ttc	ctg	tcc	tct	agg	ctg	cag	gat	ctc	240
Leu	Ser	Gly	Thr	Phe	Arg	Ala	Phe	Leu	Ser	Ser	Arg	Leu	Gln	Asp	Leu	
65					70					75					80	

tat	agc	atc	gtg	cgc	cgt	gct	gac	cgg	ggg	tct	gtg	ccc	atc	gtc	aac	288
Tyr	Ser	Ile	Val	Arg	Arg	Ala	Asp	Arg	Gly	Ser	Val	Pro	Ile	Val	Asn	
				85					90					95		

ctg	aag	gac	gag	gtg	cta	tct	ccc	agc	tgg	gac	tcc	ctg	ttt	tct	ggc	336
Leu	Lys	Asp	Glu	Val	Leu	Ser	Pro	Ser	Trp	Asp	Ser	Leu	Phe	Ser	Gly	
			100					105					110			

tcc	cag	ggt	caa	gtg	caa	ccc	ggg	gcc	cgc	atc	ttt	tct	ttt	gac	ggc	384
Ser	Gln	Gly	Gln	Val	Gln	Pro	Gly	Ala	Arg	Ile	Phe	Ser	Phe	Asp	Gly	
		115					120					125				

aga	gat	gtc	ctg	aga	cac	cca	gcc	tgg	ccg	cag	aag	agc	gta	tgg	cac	432
Arg	Asp	Val	Leu	Arg	His	Pro	Ala	Trp	Pro	Gln	Lys	Ser	Val	Trp	His	
	130					135					140					

ggc	tcg	gac	ccc	agt	ggg	cgg	agg	ctg	atg	gag	agt	tac	tgt	gag	aca	480
Gly	Ser	Asp	Pro	Ser	Gly	Arg	Arg	Leu	Met	Glu	Ser	Tyr	Cys	Glu	Thr	
145					150					155					160	

tgg	cga	act	gaa	act	act	ggg	gct	aca	ggg	cag	gcc	tcc	tcc	ctg	ctg	528
Trp	Arg	Thr	Glu	Thr	Thr	Gly	Ala	Thr	Gly	Gln	Ala	Ser	Ser	Leu	Leu	
				165					170					175		

tca	ggc	agg	ctc	ctg	gaa	cag	aaa	gct	gcg	agc	tgc	cac	aac	agc	tac	576
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Ser	Gly	Arg	Leu	Leu	Glu	Gln	Lys	Ala	Ala	Ser	Cys	His	Asn	Ser	Tyr
			180					185					190		
atc	gtc	ctg	tgc	att	gag	aat	agc	ttc	atg	acc	tct	ttc	tcc	aaa	tag
Ile	Val	Leu	Cys	Ile	Glu	Asn	Ser	Phe	Met	Thr	Ser	Phe	Ser	Lys	*
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Gly	Ser	Thr	Gly	Asp	Ala	Ala	His	Thr	His	Gln	Asp	Phe	Gln	Pro	Val
			20					25					30		
Leu	His	Leu	Val	Ala	Leu	Asn	Thr	Pro	Leu	Ser	Gly	Gly	Met	Arg	Gly
		35					40					45			
Ile	Arg	Gly	Ala	Asp	Phe	Gln	Cys	Phe	Gln	Gln	Ala	Arg	Ala	Val	Gly
	50					55					60				
Leu	Ser	Gly	Thr	Phe	Arg	Ala	Phe	Leu	Ser	Ser	Arg	Leu	Gln	Asp	Leu
65					70					75				80	
Tyr	Ser	Ile	Val	Arg	Arg	Ala	Asp	Arg	Gly	Ser	Val	Pro	Ile	Val	Asn
			85					90					95		
Leu	Lys	Asp	Glu	Val	Leu	Ser	Pro	Ser	Trp	Asp	Ser	Leu	Phe	Ser	Gly
			100					105					110		
Ser	Gln	Gly	Gln	Val	Gln	Pro	Gly	Ala	Arg	Ile	Phe	Ser	Phe	Asp	Gly
		115					120					125			
Arg	Asp	Val	Leu	Arg	His	Pro	Ala	Trp	Pro	Gln	Lys	Ser	Val	Trp	His
	130					135					140				
Gly	Ser	Asp	Pro	Ser	Gly	Arg	Arg	Leu	Met	Glu	Ser	Tyr	Cys	Glu	Thr
145					150					155				160	
Trp	Arg	Thr	Glu	Thr	Thr	Gly	Ala	Thr	Gly	Gln	Ala	Ser	Ser	Leu	Leu
				165				170						175	
Ser	Gly	Arg	Leu	Leu	Glu	Gln	Lys	Ala	Ala	Ser	Cys	His	Asn	Ser	Tyr
			180					185					190		
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